

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SCB468 PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 99/ 00478	International filing date (day/month/year) 27/01/1999	(Earliest) Priority Date (day/month/year) 30/01/1998
Applicant DOM'S.P.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

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International application No.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Recombinant proteins deriving from recombination of structural domains deriving from the alpha subunits of HGF and/or MSP growth factors. The recombinant proteins of the present invention have biological activity, and protect cells from death (apoptosis) induced by chemotherapeutic drugs. These molecules can be conveniently used to prevent or to treat the toxic side effects of chemotherapeutic agents used in cancer therapy.

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International Application No

PCT/EP 99/00478

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/475 C07K19/00 A61K38/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	TRUSOLINO L. ET AL.: "Interactions between scatter factors and their receptors: hints for therapeutic applications" THE FASEB JOURNAL, vol. 12, no. 13, October 1998 (1998-10), pages 1267-1280, XP002109039 page 1274, right-hand column, paragraph 5 - page 1275, left-hand column, paragraph 1 ---	1, 2
A	WO 93 23550 A (GENENTECH INC. (US); GODOWSKI PAUL J. (US)) 25 November 1993 (1993-11-25) abstract page 5, line 25 - page 9, line 3; figure 1 page 12, line 5 - page 15, line 26 --- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

13 July 1999

Date of mailing of the international search report

27/07/1999

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93 23541 A (GENENTECH INC (US); GODOWSKI PAUL J; LOKKER NATHALIE A; MARK MELANIE R) 25 November 1993 (1993-11-25) abstract page 2, line 28-34 page 7, line 5-24; figure 1 ---	
A	HARTMANN G. ET AL.: "A functional domain in the heavy chain of Scatter Factor / Hepatocyte Growth Factor binds the c-Met receptor and induces cell dissociation but not mitogenesis" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 89, 1 December 1992 (1992-12-01), pages 11574-11578, XP000764839 ISSN: 0027-8424 cited in the application abstract ---	
A	GAUDINO G. ET AL.: "Ron is a heterodimeric tyrosine kinase receptor activated by the HGF homologue MSP" EMBO JOURNAL, vol. 13, no. 15, 1 January 1994 (1994-01-01), pages 3524-3532, XP002036128 ISSN: 0261-4189 cited in the application page 3528, left-hand column, paragraph 2 ---	
A	WO 94 06456 A (GENENTECH INC. (US); ROOS FILIP (US); SCHWALL RALPH (US)) 31 March 1994 (1994-03-31) abstract -----	12,13

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Information on patent family members

International Application No

PCT/EP 99/00478

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9323550 A	25-11-1993	US 5316921 A	31-05-1994
		US 5328837 A	12-07-1994
		EP 0642580 A	15-03-1995
		EP 0642585 A	15-03-1995
		JP 7508420 T	21-09-1995
		JP 7508178 T	14-09-1995
		US 5547856 A	20-08-1996
		WO 9323541 A	25-11-1993
		US 5580963 A	03-12-1996
		US 5684136 A	04-11-1997
		US 5763584 A	09-06-1998
		US 5770704 A	23-06-1998
WO 9323541 A	25-11-1993	US 5316921 A	31-05-1994
		US 5328837 A	12-07-1994
		EP 0642580 A	15-03-1995
		EP 0642585 A	15-03-1995
		JP 7508420 T	21-09-1995
		JP 7508178 T	14-09-1995
		US 5547856 A	20-08-1996
		WO 9323550 A	25-11-1993
		US 5580963 A	03-12-1996
		US 5684136 A	04-11-1997
		US 5763584 A	09-06-1998
		US 5770704 A	23-06-1998
WO 9406456 A	31-03-1994	CA 2144081 A	31-03-1994
		DE 69310525 D	12-06-1997
		DE 69310525 T	02-10-1997
		EP 0661993 A	12-07-1995
		JP 8501314 T	13-02-1996
		US 5654404 A	05-08-1997
		US 5703048 A	30-12-1997